AMENDMENTS TO THE CLAIMS

1-2. (canceled)

- 3. (currently amended) An electrochromic device, comprising:
 - (a) a first substantially transparent substrate having a front surface and a rear surface, wherein an electrically conductive material is applied to at least a portion of the rear surface;
 - (b) a second substrate having a front surface and a rear surface, wherein an electrically conductive material is applied to at least a portion of the front surface; and
 - (c) an electrochromic medium contained within a chamber positioned between the first and second substrates which comprises:
 - (1) at least one solvent;
 - (2) at least one electrochromic material;
 - (3) a cross-linked matrix; and
 - (4) wherein the cross-linked matrix results from cross-linking <u>preformed</u> substantially non cross-linked polymer chains having a molecular weight of at least approximately 1,000 daltons.
- 4. (previously presented) The electrochromic device according to claim 3, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

- 5. (previously presented) The electrochromic device according to claim 3, wherein the cross-linked matrix results from cross-linking polymer chains having a molecular weight of at least approximately 2,000 daltons.
- 6. (previously presented) The electrochromic device according to claim 5, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.
- 7. (previously presented) The electrochromic device according to claim 3, wherein the cross-linked matrix results from cross-linking polymer chains having a molecular weight of at least approximately 3,000 daltons.
- 8. (previously presented) The electrochromic device according to claim 7, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.
- 9. (previously presented) The electrochromic device according to claim 3, wherein the cross-linked matrix results from cross-linking polymer chains having a molecular weight of at least approximately 5,000 daltons.
- 10. (previously presented) The electrochromic device according to claim 9, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

- 11. (currently amended) An electrochromic device, comprising:
 - (a) a first substantially transparent substrate having a front surface and a rear surface, wherein an electrically conductive material is applied to at least a portion of the rear surface;
 - (b) a second substrate having a front surface and a rear surface, wherein an electrically conductive material is applied to at least a portion of the front surface; and
 - (c) an electrochromic medium contained within a chamber positioned between the first and second substrates which comprises:
 - (1) at least one solvent;
 - (2) at least one electrochromic material;
 - (3) a free-standing gel; and
 - (4) wherein the free-standing gel results from cross-linking <u>preformed</u> <u>substantially non cross-linked</u> polymer chains having a molecular weight of at least approximately 1,000 daltons.
- 12. (previously presented) The electrochromic device according to claim 11, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.
- 13. (previously presented) The electrochromic device according to claim 11, wherein the free-standing gel results from cross-linking polymer chains having a molecular weight of at least approximately 2,000 daltons.

- 14. (previously presented) The electrochromic device according to claim 13, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.
- 15. (previously presented) The electrochromic device according to claim 11, wherein the free-standing gel results from cross-linking polymer chains having a molecular weight of at least approximately 3,000 daltons.
- 16. (previously presented) The electrochromic device according to claim 15, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.
- 17. (previously presented) The electrochromic device according to claim 11, wherein the free-standing gel results from cross-linking polymer chains having a molecular weight of at least approximately 5,000 daltons.
- 18. (previously presented) The electrochromic device according to claim 17, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.
- 19. (currently amended) An electrochromic device, comprising:
 - (a) a first substantially transparent substrate having a front surface and a rear surface, wherein an electrically conductive material is applied to at least a portion of the rear surface;
 - (b) a second substrate having a front surface and a rear surface, wherein an electrically conductive material is applied to at least a portion of the front surface; and

- (c) an electrochromic medium contained within a chamber positioned between the first and second substrates which comprises:
 - (1) at least one solvent;
 - (2) at least one electrochromic material;
 - (3) a free-standing gel; and
 - (4) wherein the free-standing gel results from cross-linking polymer chains, and wherein forming the polymer chains and cross-linking are not substantially one in the same reaction.
- 20. (previously presented) The electrochromic device according to claim 19, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.
- 21. (previously presented) The electrochromic device according to claim 19, wherein the free-standing gel results from cross-linking polymer chains having a molecular weight of at least approximately 1,000 daltons.
- 22. (previously presented) The electrochromic device according to claim 21, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.
- 23. (previously presented) The electrochromic device according to claim 19, wherein the free-standing gel results from cross-linking polymer chains having a molecular weight of at least approximately 2,000 daltons.

- 24. (previously presented) The electrochromic device according to claim 23, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.
- 25. (previously presented) The electrochromic device according to claim 19, wherein the free-standing gel results from cross-linking polymer chains having a molecular weight of at least approximately 3,000 daltons.
- 26. (previously presented) The electrochromic device according to claim 25, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.
- 27. (previously presented) The electrochromic device according to claim 19, wherein the free-standing gel results from cross-linking polymer chains having a molecular weight of at least approximately 5,000 daltons.
- 28. (previously presented) The electrochromic device according to claim 27, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.
- 29. (currently amended) An electrochromic device, comprising:
 - (a) a first substantially transparent substrate having a front surface and a rear surface, wherein an electrically conductive material is applied to at least a portion of the rear surface;
 - (b) a second substrate having a front surface and a rear surface, wherein an electrically conductive material is applied to at least a portion of the front surface; and

- (c) an electrochromic medium contained within a chamber positioned between the first and second substrates which comprises:
 - (1) at least one solvent;
 - (2) at least one electrochromic material;
 - (3) a substantially non-weeping gel; and
 - (4) wherein the substantially non-weeping gel results from cross-linking preformed substantially non cross-linked polymer chains having a molecular weight of at least approximately 1,000 daltons.
- 30. (previously presented) The electrochromic device according to claim 29, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.
- 31. (previously presented) The electrochromic device according to claim 29, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 2,000 daltons.
- 32. (previously presented) The electrochromic device according to claim 31, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.
- 33. (previously presented) The electrochromic device according to claim 29, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 3,000 daltons.

- 34. (previously presented) The electrochromic device according to claim 33, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.
- 35. (previously presented) The electrochromic device according to claim 29, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 5,000 daltons.
- 36. (previously presented) The electrochromic device according to claim 35, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

- 37. (currently amended) An electrochromic device, comprising:
 - (a) a first substantially transparent substrate having a front surface and a rear surface, wherein an electrically conductive material is applied to at least a portion of the rear surface;
 - (b) a second substrate having a front surface and a rear surface, wherein an electrically conductive material is applied to at least a portion of the front surface; and
 - (c) an electrochromic medium contained within a chamber positioned between the first and second substrates which comprises:
 - (1) at least one solvent;
 - (2) at least one electrochromic material;
 - (3) a substantially non-weeping gel; and
 - (4) wherein the substantially non-weeping gel results from cross-linking polymer chains, and wherein forming the polymer chains and cross-linking are not substantially one in the same reaction.
- 38. (previously presented) The electrochromic device according to claim 37, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.
- 39. (previously presented) The electrochromic device according to claim 37, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 1,000 daltons.

- 40. (previously presented) The electrochromic device according to claim 39, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.
- 41. (previously presented) The electrochromic device according to claim 37, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 2,000 daltons.
- 42. (previously presented) The electrochromic device according to claim 41, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.
- 43. (previously presented) The electrochromic device according to claim 37, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 3,000 daltons.
- 44. (previously presented) The electrochromic device according to claim 43, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.
- 45. (previously presented) The electrochromic device according to claim 37, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 5,000 daltons.
- 46. (previously presented) The electrochromic device according to claim 45, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

- 47. (previously presented) An electrochromic device, comprising:
 - at least one substrate; and
- a substantially non-weeping gel, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 1,000 daltons, and wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.
- 48. (previously presented) The electrochromic device according to claim 47, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 2,000 daltons.
- 49. (previously presented) The electrochromic device according to claim 47, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 3,000 daltons.
- 50. (previously presented) The electrochromic device according to claim 47, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 5,000 daltons.
- 51. (currently amended) The electrochromic device according to claim 47, wherein the same is <u>a</u> solid state device.

- 52. (new) The electrochromic device according to claim 3, wherein the cross-linked matrix comprises less than approximately 50 percent by weight of the electrochromic medium.
- 53. (new) The electrochromic device according to claim 3, wherein the cross-linked matrix comprises less than approximately 25 percent by weight of the electrochromic medium.
- 54. (new) The electrochromic device according to claim 3, wherein the cross-linked matrix comprises less than approximately 20 percent by weight of the electrochromic medium.
- 55. (new) The electrochromic device according to claim 11, wherein the free-standing gel comprises less than approximately 50 percent by weight of the electrochromic medium.
- 56. (new) The electrochromic device according to claim 11, wherein the free-standing gel comprises less than approximately 25 percent by weight of the electrochromic medium.
- 57. (new) The electrochromic device according to claim 11, wherein the free-standing gel comprises less than approximately 20 percent by weight of the electrochromic medium.
- 58. (new) The electrochromic device according to claim 19, wherein the free-standing gel comprises less than approximately 50 percent by weight of the electrochromic medium.
- 59. (new) The electrochromic device according to claim 19, wherein the free-standing gel comprises less than approximately 25 percent by weight of the electrochromic medium.

- 60. (new) The electrochromic device according to claim 19, wherein the free-standing gel comprises less than approximately 20 percent by weight of the electrochromic medium.
- 61. (new) The electrochromic device according to claim 29, wherein the substantially non-weeping gel comprises less than approximately 50 percent by weight of the electrochromic medium.
- 62. (new) The electrochromic device according to claim 29, wherein the substantially non-weeping gel comprises less than approximately 25 percent by weight of the electrochromic medium.
- 63. (new) The electrochromic device according to claim 29, wherein the substantially non-weeping gel comprises less than approximately 20 percent by weight of the electrochromic medium.
- 64. (new) The electrochromic device according to claim 37, wherein the substantially non-weeping gel comprises less than approximately 50 percent by weight of the electrochromic medium.
- 65. (new) The electrochromic device according to claim 37, wherein the substantially non-weeping gel comprises less than approximately 25 percent by weight of the electrochromic medium.

- 66. (new) The electrochromic device according to claim 37, wherein the substantially non-weeping gel comprises less than approximately 20 percent by weight of the electrochromic medium.
- 67. (new) The electrochromic device according to claim 47, wherein the substantially non-weeping gel comprises less than approximately 50 percent by weight of the electrochromic medium.
- 68. (new) The electrochromic device according to claim 47, wherein the substantially non-weeping gel comprises less than approximately 25 percent by weight of the electrochromic medium.
- 69. (new) The electrochromic device according to claim 47, wherein the substantially non-weeping gel comprises less than approximately 20 percent by weight of the electrochromic medium.